

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 July 2001 (05.07.2001)

PCT

(10) International Publication Number
WO 01/48073 A1

(51) International Patent Classification⁷: C08K 9/04, 9/06, C08F 292/00

Toride, Ibaraki 302-0004 (JP). UKACHI, Takashi [JP/JP]; 5-22-9, Kamiya, Ushiku, Ibaraki 300-12 (JP).

(21) International Application Number: PCT/NL00/00938

(74) Agent: RENKEMA, Jacob; DSM Patents & Trademarks, P.O. Box 9, NL-6160 MA Geleen (NL).

(22) International Filing Date: 20 December 2000 (20.12.2000)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(30) Priority Data: 1999-375407 28 December 1999 (28.12.1999) JP

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): DSM N.V. [NL/NL]; Het Overloon 1, NL-6411 TB Heerlen (NL). JSR CORPORATION [JP/JP]; JSR Building, 2-11-24, Tsukiji, Chuo-ku, Tokyo 104-8410 (JP). JAPAN FINE COATINGS CO., LTD. [JP/JP]; 2-11-24, Tsukiji, Chuo-ku, Tokyo 104-8410 (JP).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and

(75) Inventors/Applicants (for US only): YAMAGUCHI, Yoshikazu [JP/JP]; 2-16-1-501, Umezono, Tsukuba, Ibaraki 305-0045 (JP). YASHIRO, Takao [JP/JP]; 2-13-28-515, Kawaguchi, Tsuchiura, Ibaraki 300-0033 (JP). NISHIWAKI, Isao [JP/JP]; 2-19-12-411, Toride,

WO 01/48073 A1

(54) Title: REACTIVE PARTICLES, CURABLE COMPOSITION COMPRISING THE SAME AND CURED PRODUCTS

(57) Abstract: Reactive particles have been invented that may be used for a curable composition exhibiting excellent cured product productivity and capable of forming coatings with high hardness, superior scratch resistance, excellent abrasion resistance, low curling properties, superb adhesion, and chemicals resistance, particularly high chemicals resistance, on the surface of various substrates; a curable composition containing the reactive particles; and cured products made from the curable composition.